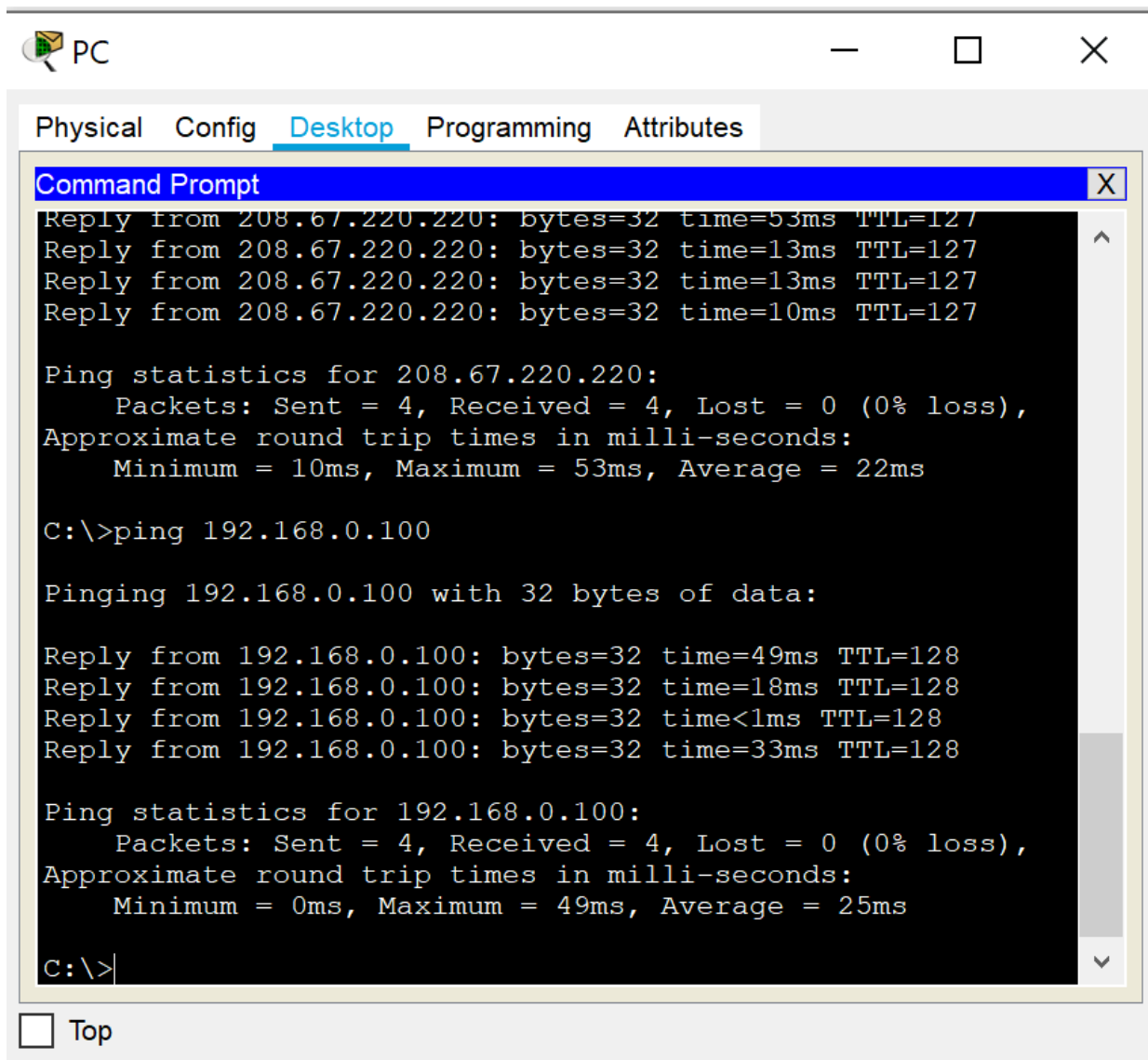


Assignment 4 – Packet Tracer

- This is an individual assignment, and is worth 20 points.
- The due date and time is 11:59 PM, Sep 28.
- Use the outcome file to submit your work.
- Submit the final outcome after following the instructions. Change the file name following the naming convention: homework, underscore, last name, first initial, and extension (e.g., Assignment4_Img.pkt).
- Copying and submitting someone else's work is strictly prohibited. When caught, the students (giver and receiver) will receive zero on this assignment and also a 20 points penalty.

Task 1. Complete all the Parts in the following file: *2.1.1.5 Packet Tracer - Create a Simple Network Using Packet Tracer.pdf*.

- Ping Laptop from PC and take a screenshot of the outcome.



The screenshot shows a PC window titled "PC" with a "Command Prompt" window open. The Command Prompt displays the results of two ping commands. The first command is for the IP address 208.67.220.220, and the second is for 192.168.0.100. Both commands show successful results with 0% loss and various round trip times.

```
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 208.67.220.220: bytes=32 time=53ms TTL=127
Reply from 208.67.220.220: bytes=32 time=13ms TTL=127
Reply from 208.67.220.220: bytes=32 time=13ms TTL=127
Reply from 208.67.220.220: bytes=32 time=10ms TTL=127

Ping statistics for 208.67.220.220:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 10ms, Maximum = 53ms, Average = 22ms

C:\>ping 192.168.0.100

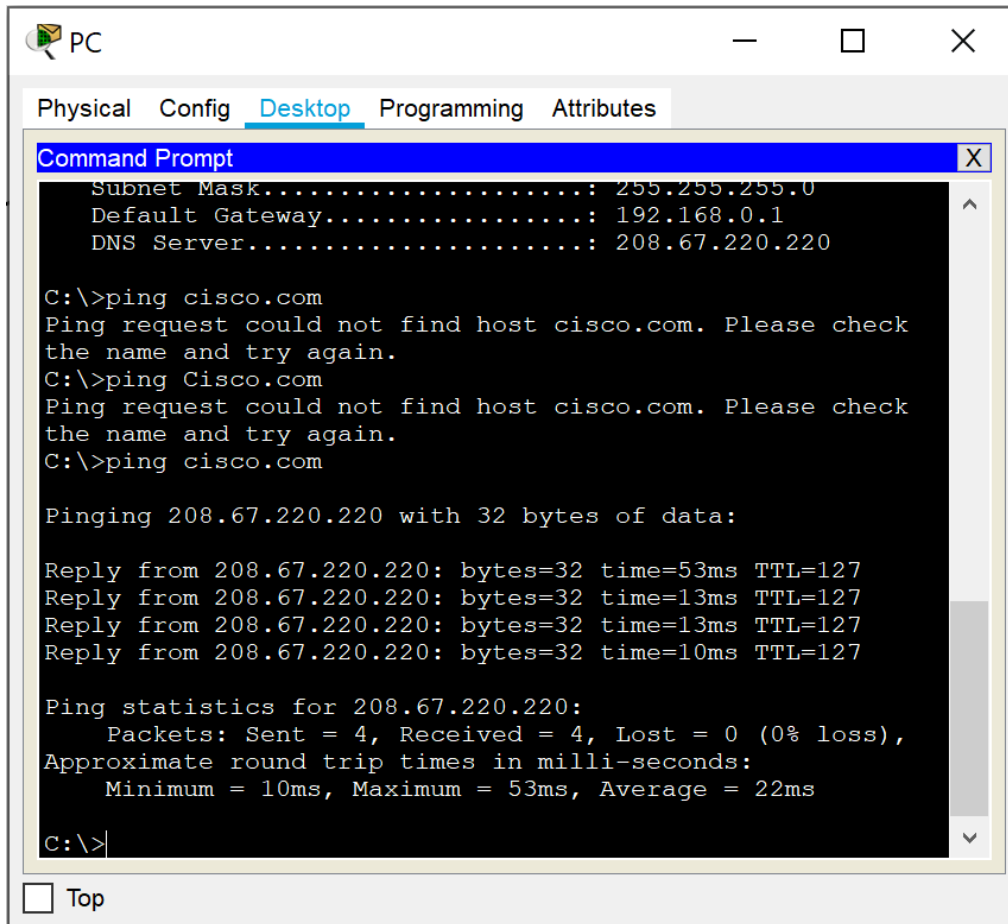
Pinging 192.168.0.100 with 32 bytes of data:

Reply from 192.168.0.100: bytes=32 time=49ms TTL=128
Reply from 192.168.0.100: bytes=32 time=18ms TTL=128
Reply from 192.168.0.100: bytes=32 time<1ms TTL=128
Reply from 192.168.0.100: bytes=32 time=33ms TTL=128

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 49ms, Average = 25ms

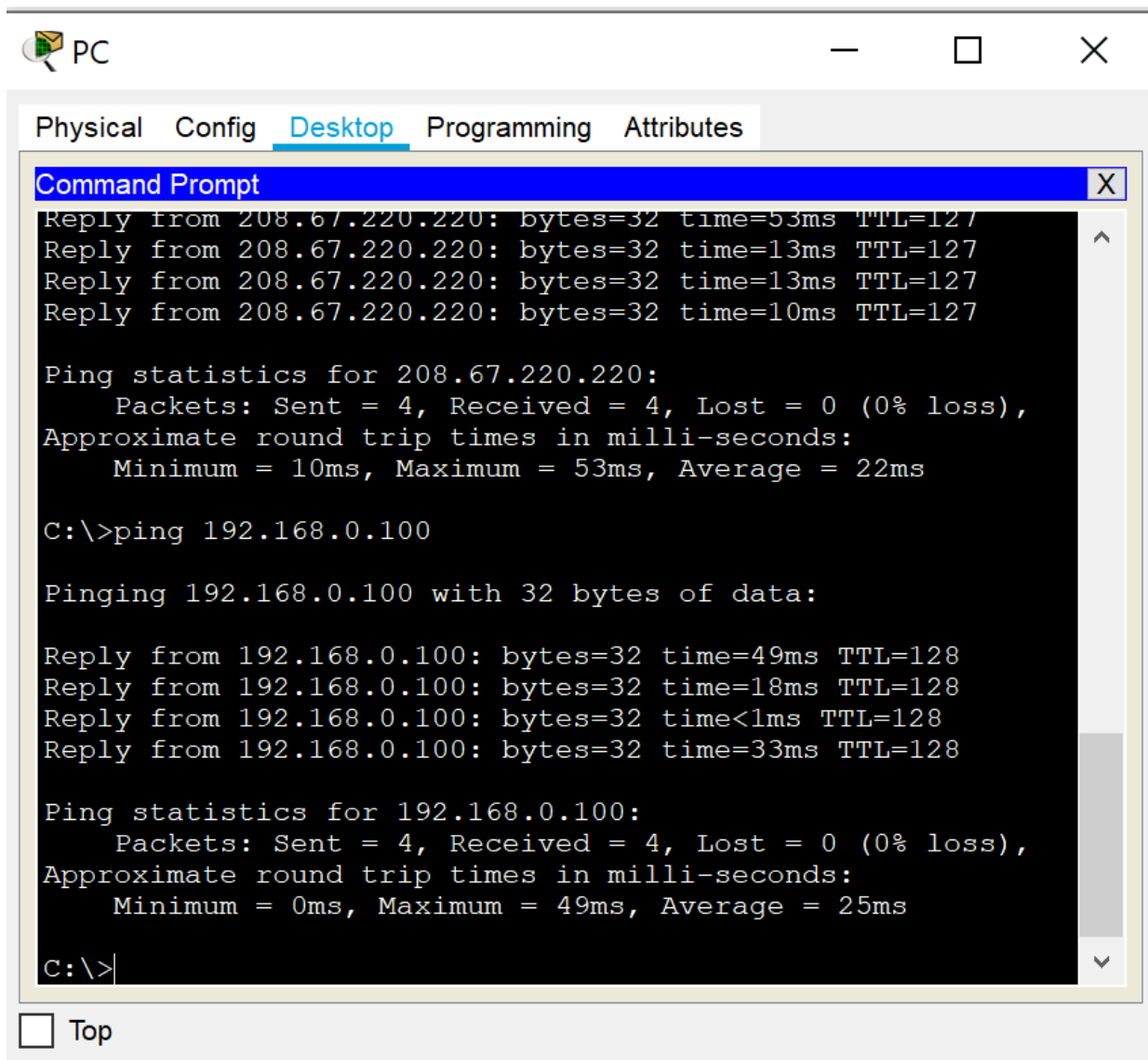
C:\>
```

- Ping Cisco.com from Laptop and take a screenshot of the outcome (refer to p. 14).

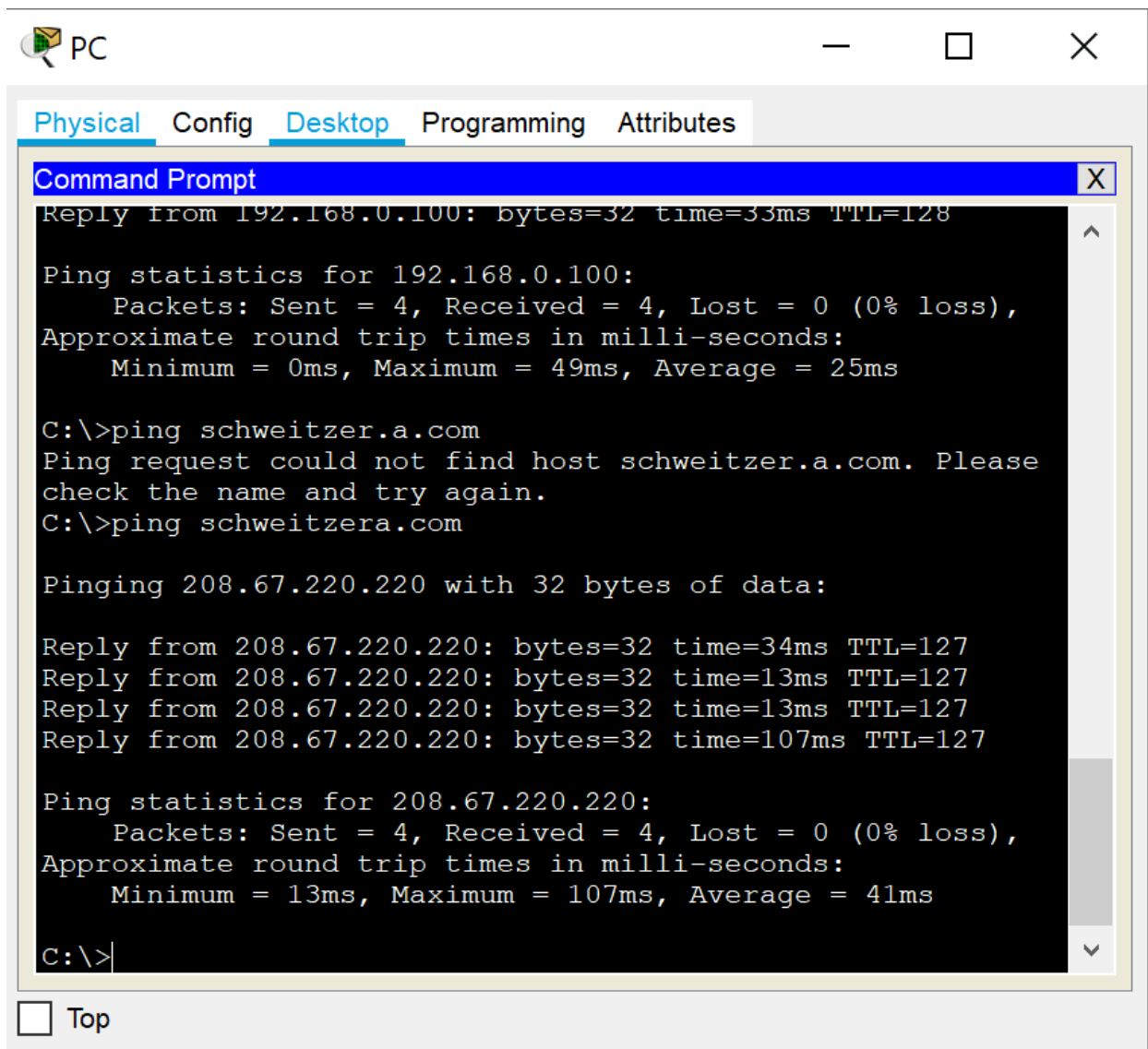


Task 2. Change the name of the network devices.

- Ping Laptop from PC and take a screenshot of the outcome.



- Ping [your last+first initial].com from PC and take a screenshot of the outcome.



Task 3. Complete Parts 1 and 2 (not 3) in the following file: *3.1.1.3 Packet Tracer - Explore Network Functionality Using PDUs.pdf*.

- Take a screenshot of the outcome (like the one on p.4).

Cisco Packet Tracer - C:\Users\adam1\Google Drive\SCHOOL\College\Fall 2019\CIS 480\Assignment 4.pkt

File Edit Options View Tools Extensions Help

Logical Physical 453, y.3 [Root] 03:27:00

PDU Information at Device: PC

OSI Model Outbound PDU Details

At Device: PC
Source: PC
Destination: Laptop

In Layers	Out Layers
Layer7	Layer7
Layer6	Layer6
Layer5	Layer5
Layer4	Layer4
Layer3	Layer 3: IP Header Src. IP: 192.168.0.101, Dest. IP: 192.168.0.100
Layer2	Layer 2: ICMP Message Type: 8
Layer1	Layer1

1. The Ping process starts the next ping request.
2. The Ping process creates an ICMP Echo Request message and sends it to the lower process.
3. The source IP address is not specified. The device sets it to the port's IP address.
4. The device sets TTL in the packet header.
5. The destination IP address is in the same subnet. The device sets the next-hop to destination.

Challenge Me << Previous Layer Next Layer >>

Simulation Panel

Event List

Vis.	Time(sec)	Last De	At Dev	Type
	0.000	--	PC	ICMP
	0.000	--	PC	ARP
	0.001	PC	Wirele...	ARP
	0.002	Wirele...	Laptop	ARP
	0.006	--	Laptop	ARP
	0.007	Laptop	Wirele...	ARP
Visible	0.008	Wirele...	PC	ARP
Visible	0.008	--	PC	ICMP

Reset Simulation Constant Delay Captured to: 0.008 s

Play Controls

Event List Filters - Visible Events
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Time: 11:27:39.838 PLAY CONTROLS: [K] [M] [H]

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Ed
<input checked="" type="checkbox"/>	In Progress	PC	Laptop	ICMP		0.000	N	0	(

Task 4. Submit your *.pkt file.